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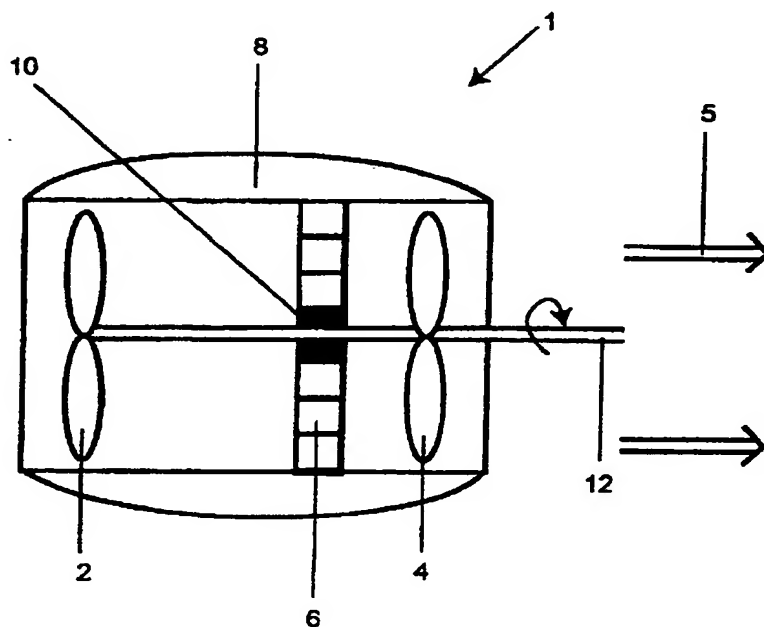
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(54) Title: COAXIAL PROPULSION SYSTEMS WITH FLOW MODIFICATION ELEMENT



(57) Abstract: A coaxial propulsion system has a primary propeller, a flow control element to reduce swirl, and a secondary propeller, mounted in series configuration. A connecting shroud directs the combined thrust. Said primary propeller and said secondary propeller may be connected to the same engine, or independent engines for greater reliability and performance. A coaxial jet fan system has a primary fan, a flow control element to reduce swirl, and a secondary fan, mounted in a series configuration. A connecting shroud directs the combined bypass and jet thrust. Further, a secondary shroud provides a primary bypass and a secondary bypass thrust, thereby establishing a greater level of control over the bypass ratio and engine efficiency.



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